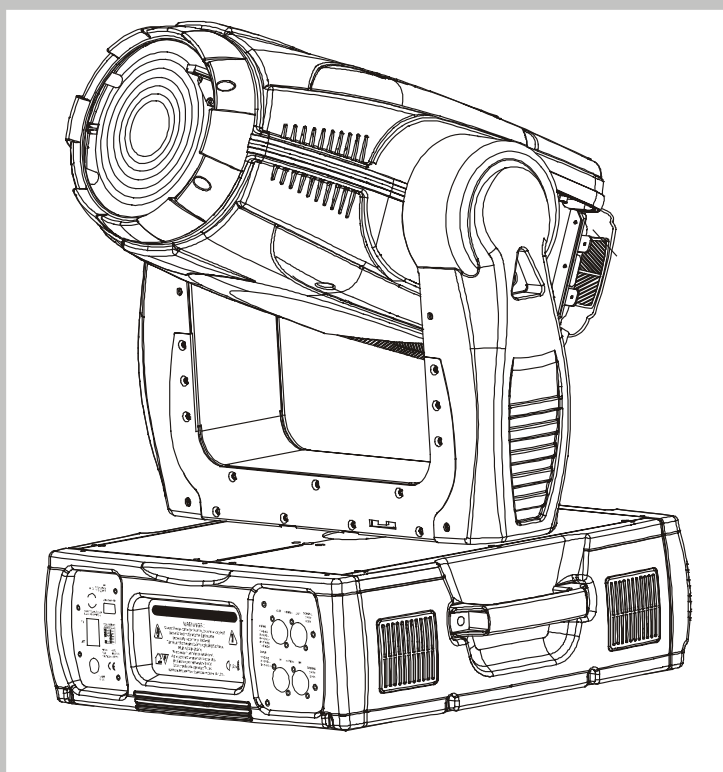


SERIES
SHOW

CE

Wash 1200



User Manual

www.yajiang.com

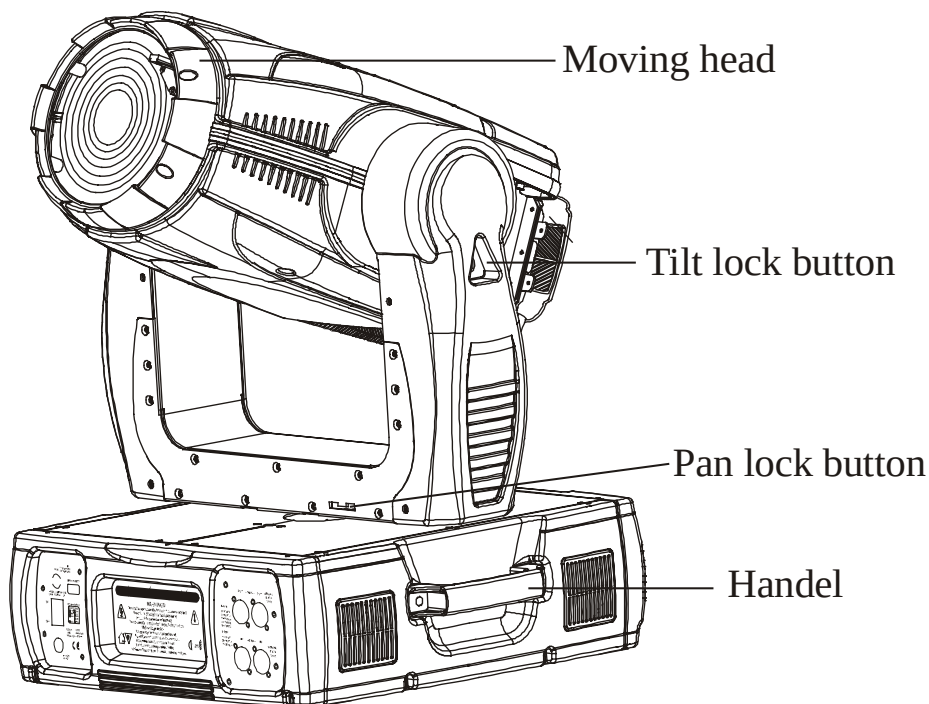
S[®]SILVER STAR
Professional Lighting

Version 1.0

2005年11月19日

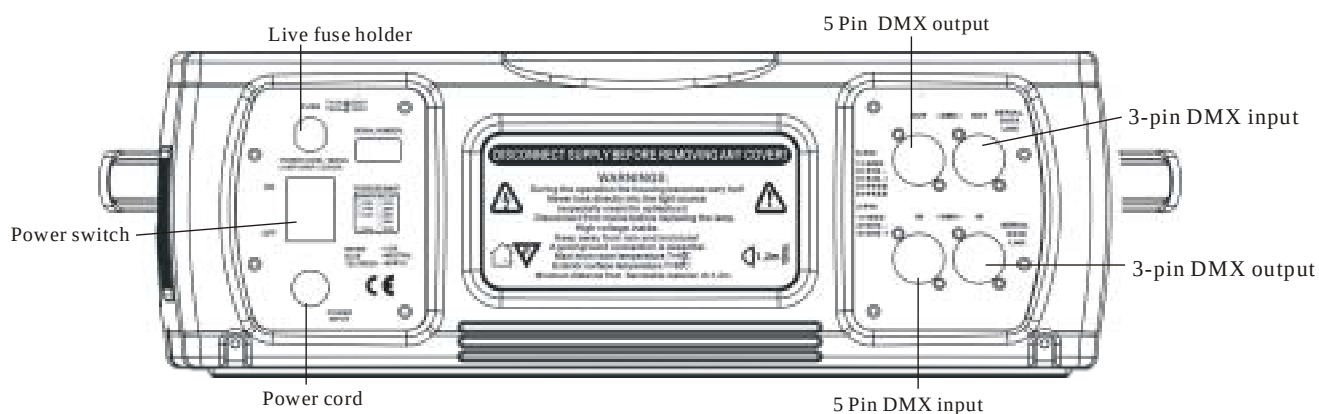
- ◆ Avoid shaking of strong impacts to the equipment.
- ◆ Never lift the equipment by holding it at the head or arms. Always use the handles on the base.
- ◆ DO NOT turn on the lamp at short intervals as this will reduce the lamp's life.
- ◆ The maximum ambient temperature of the housing is $t_a=45^{\circ}\text{C}$. If the temperature is in excess of this the thermal switch will shut off the power.
- ◆ When transferring the product, it is advisable to use the original packaging that the unit left the factory in.

DESCRIPTION



The head must be locked for transportation-the tilt lock button is pushed and the pan lock/unlock lever is in lock position. To unlock the head, press the tilt unlock button and move the pan lock/unlock lever to unlock position.

REAR PANEL OF THE BASE



INTRODUCTION

This equipment is produced in accordance with CE standards and conforms to the international standard DMX512 protocol.

On receiving this product, please carefully check that there has been no damage caused in transportation and that the following parts are enclosed:

- 1 × 1200W WASH MOVING HEAD
- 1 × SIGNAL CABLE
- 1 × USER MANUAL
- 1 × SAFETY CABLE
- 2 × CLAMPS

IMPORTANT

BEFORE OPERATION PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE REAR PANEL OF THIS UNIT IS THE SAME AS THE SUPPLIED MAINS POWER IN YOUR AREA. READ THIS USER MANUAL CAREFULLY BEFORE OPERATION

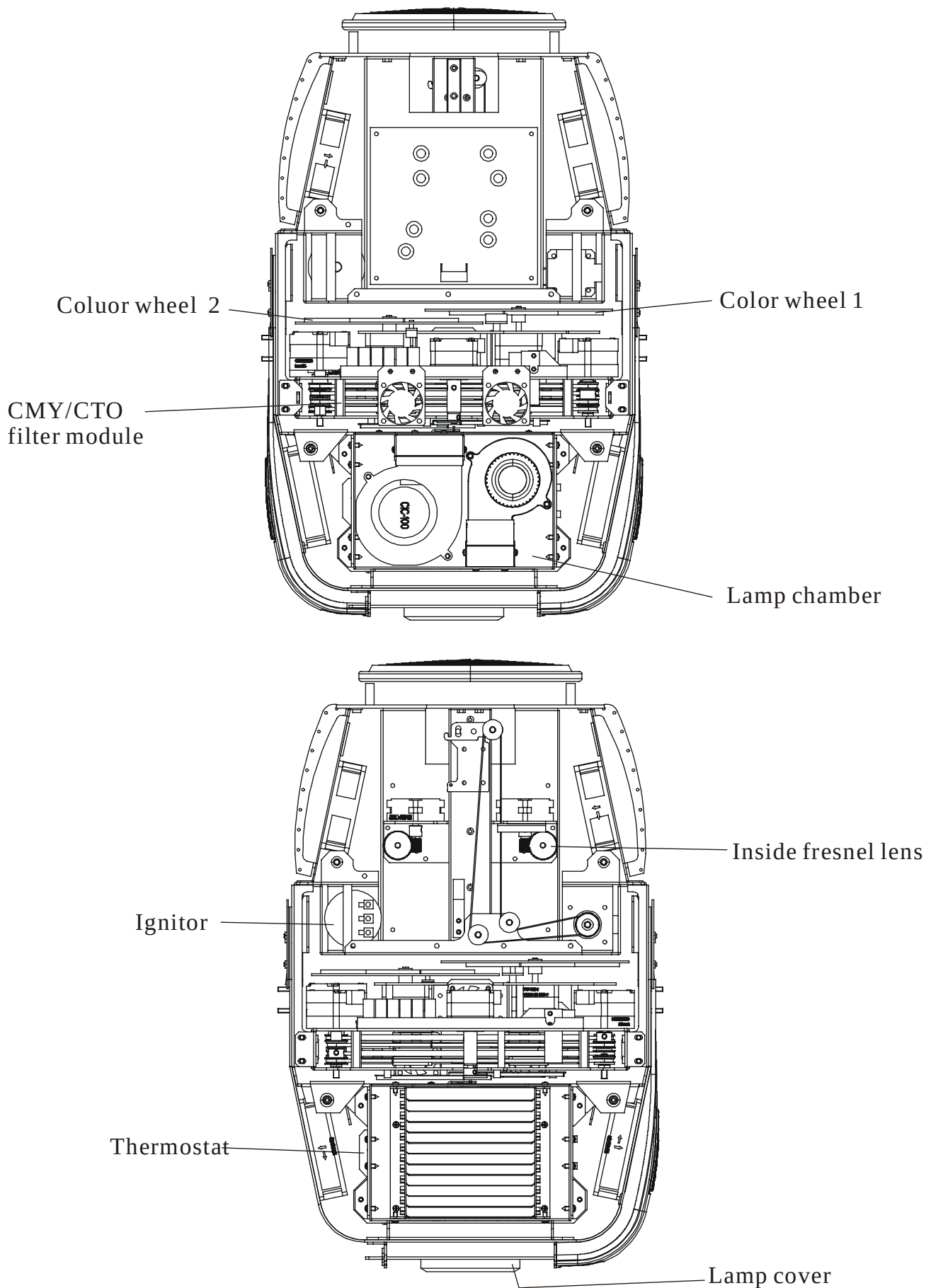
SAFETY WARNING

- ◆ This product must be installed by a qualified professional
- ◆ All operation and maintenance must be carried out in accordance with this user manual.
- ◆ Keep this device away from any form of water or moisture at all times.
- ◆ Always disconnect the power before attempting to open the equipment housing or carrying out any maintenance.
- ◆ Avoid looking directly into the light source (especially those who suffer from epileptic fits)
- ◆ DO NOT touch the equipment casing during operation due to high temperatures of the metal and plastic housing.
- ◆ This equipment is designed for indoor use only.

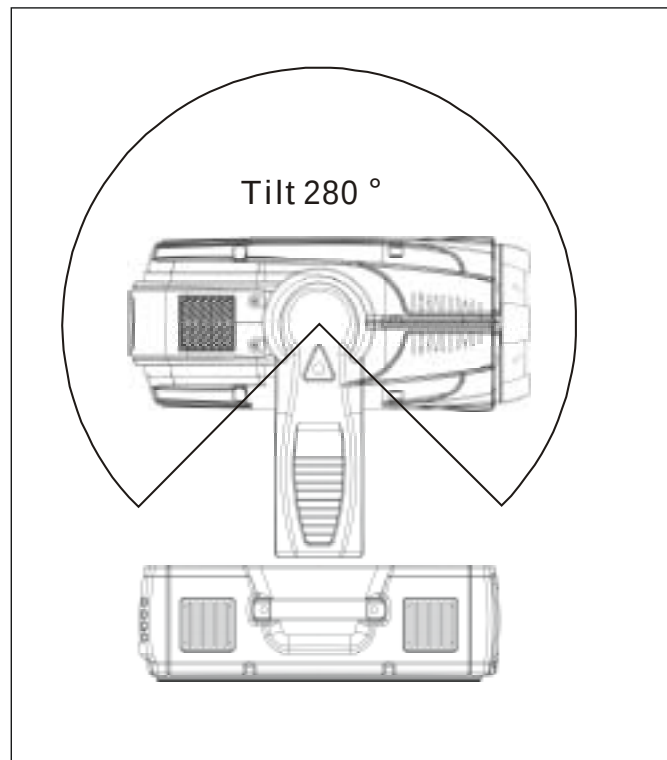
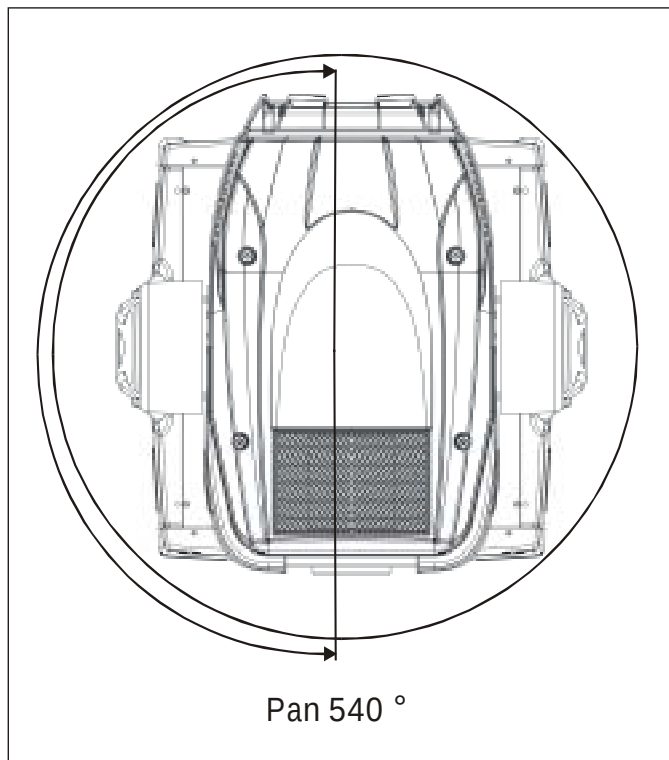
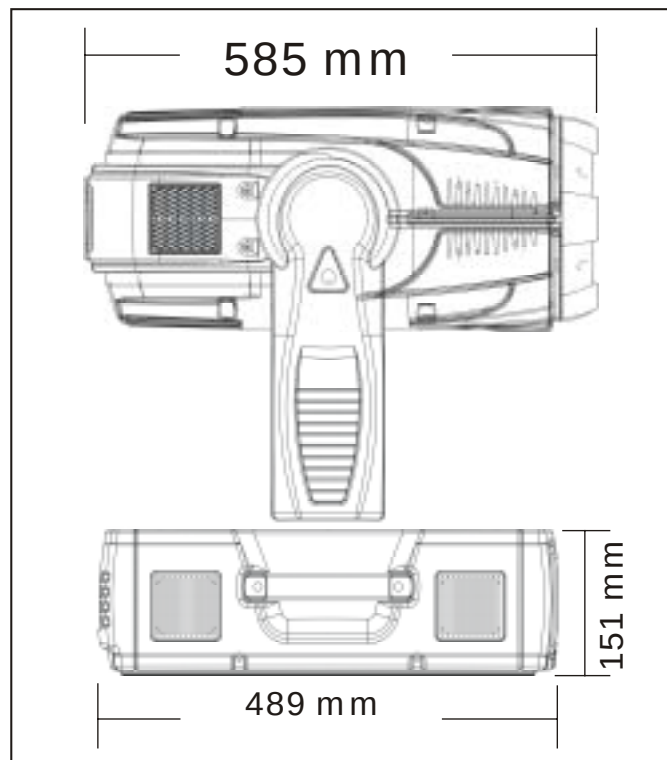
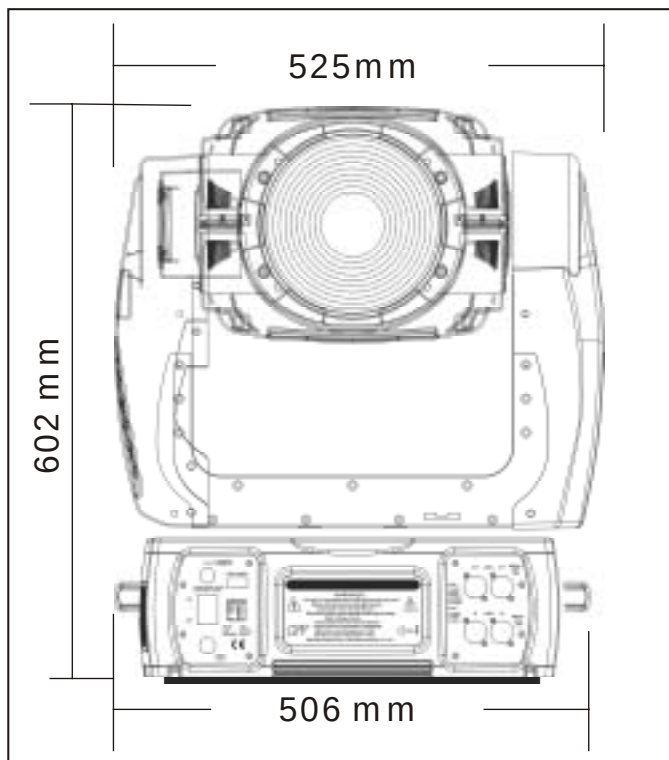
ATTENTION

- ◆ This product left our premises in perfect condition. In order for safe operation and to maintain the original condition, the user must always follow the instructions and safety warnings described in this user manual.
- ◆ The manufacturer cannot accept liability for any resulting damages caused by non-observance of this manual or any unauthorized modifications to the equipment and are not subject to warranty.
- ◆ Always make sure that the equipment is OFF before connecting the power cables.
- ◆ Always make sure that the power cable is never cut or damaged by sharp edges. It is advisable to check the state of the power cable from time to time.
- ◆ DO NOT connect this equipment to a dimmer rack.
- ◆ This device falls under Protection Class I. Therefore it is essential that the yellow/green wire must be earthed.
- ◆ If during transportation or storage the equipment has gone through drastic temperature changes, it is advisable to allow some time for the equipment to first adjust to room temperature before operation.
- ◆ Never turn on the equipment without a lamp

Description of the fixture



DIMENSIONS



INSTALLATION

REPLACING LAMP

CAUTION: ALWAYS SWITCH OFF AND UNPLUG AT THE MAINS BEFORE INSTALLING THE LAMP

1. Disconnect the power and all the unit to cool for at least 10 minutes.
2. Loosen screws indicated **A & B** on the lamp cover at the back of the head.
3. Gently pull and remove the lamp cover and lamp holder from the head.
4. Holding the lamp by its ceramic base, carefully pull the lamp straight out of the lamp socket.
5. Holding the new lamp by its ceramic base, gently insert the lamp in to the lamp socket.
6. Reinsert the lamp cover and lamp holder and tighten screw **A & B**.

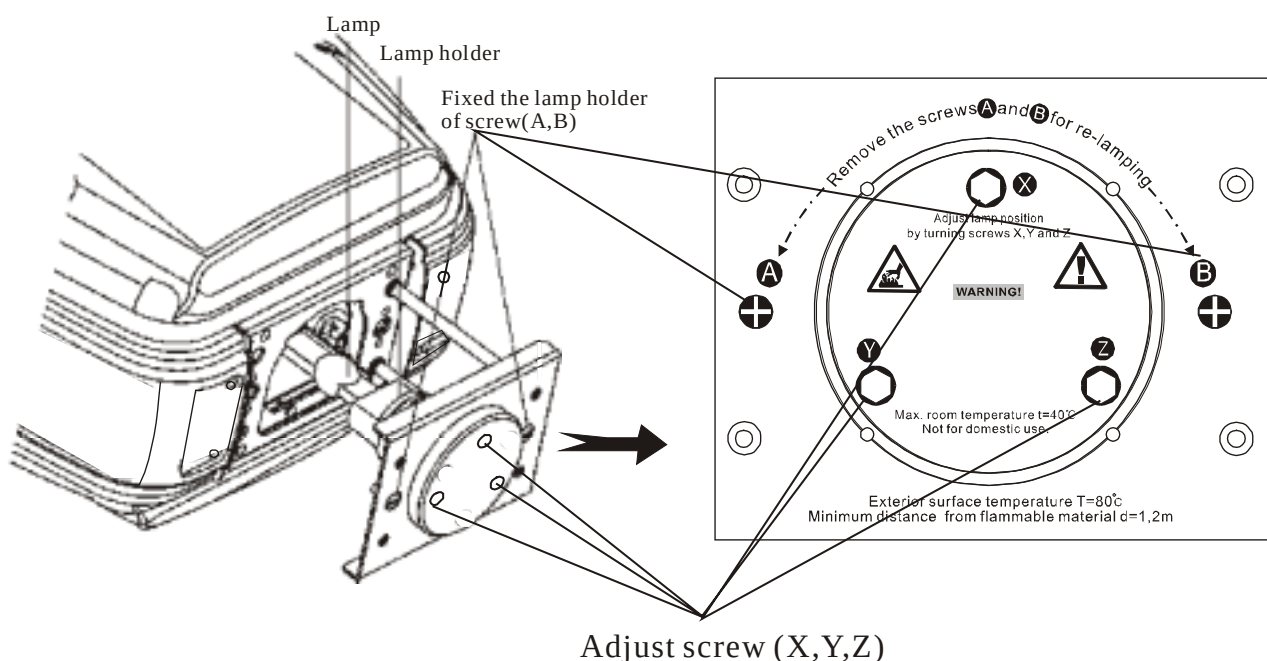
IMPORTANT:

- 盒 Always make sure that the lamp is installed tightly into the lamp socket.
- 盒 O NOT install a lamp other than that specified in this user manual.
- 盒 O NOT touch the glass area of the lamp with bare hands.

LAMP ADJUSTMENT

When this product left the factory, the lamp holder was calibrated here. However, due to the possibility of small deviations between lamps, fine adjustments after replacement may improve light output.

1. Turn on the lamp and operate with white beam (i.e. no effects)
2. Open the shutter and the iris with the dimmer intensity at 100%.
3. Focus the light beam on a flat surface (i.e. wall/floor)
4. Center the “hot-spot” (the brightest part of the image) using the 3 adjustment screws **X, Y & Z**.
5. Once the “hot-spot” has been centered, remove the “hot-spot” and balance the light output by turning the adjustment screws a quarter-turn clockwise one after another. If the “hot-spot” cannot be located, adjust the lamp until the light output is evenly

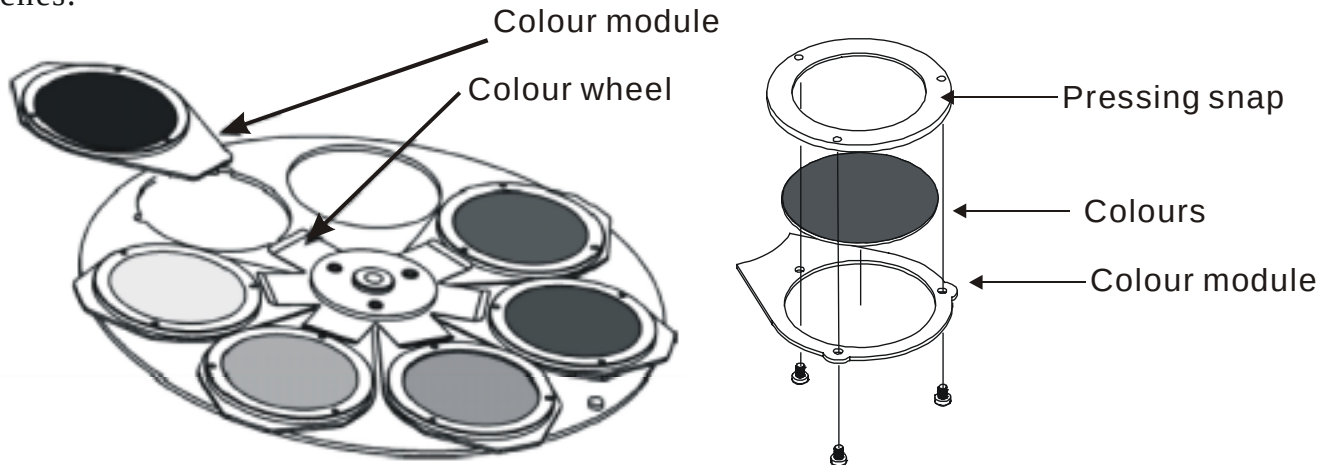


5, Inserting / Exchanging colours

Open the bottom cover of the moving head by loosening the 4 quarter-turn fasteners on the top cover and follow the instructions below:

Gently bend out the colour module to release it from the fixative holes and eject it from the pressing snap. Put the new colour module back under the pressing snap and push it to the 3 fixative notches.

CAUTION: Make sure the colour modules be locked well when you push it to fixative notches.



6, Rigging the fixture

Danger of fire! When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in between a distance of min 1.3M.

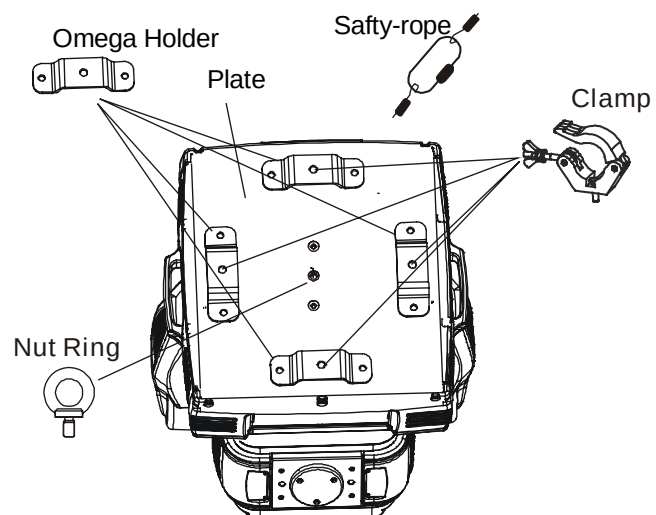
CAUTION! Use 2 appropriate clamps to rig the fixture on the truss. Follow the instructions mentioned at the bottom of the base. Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixture is secure.

The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

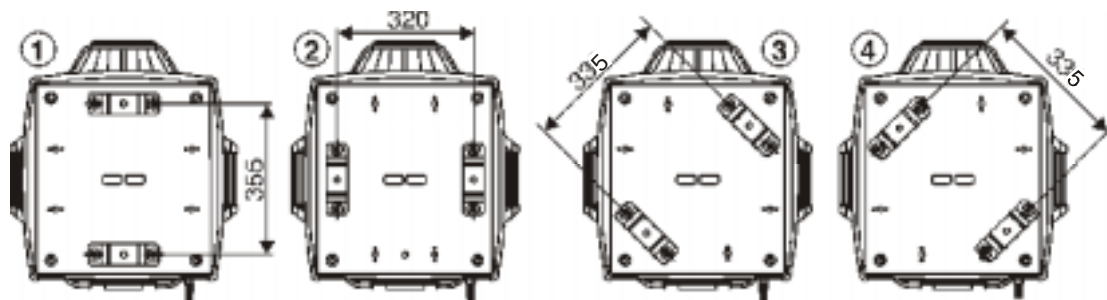
The installation must always be secured with a secondary safety attachment, e.g. And appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment falls.

The moving heads can be placed directly on the stage or rigged in any orientation on a truss without altering its operation characteristics:

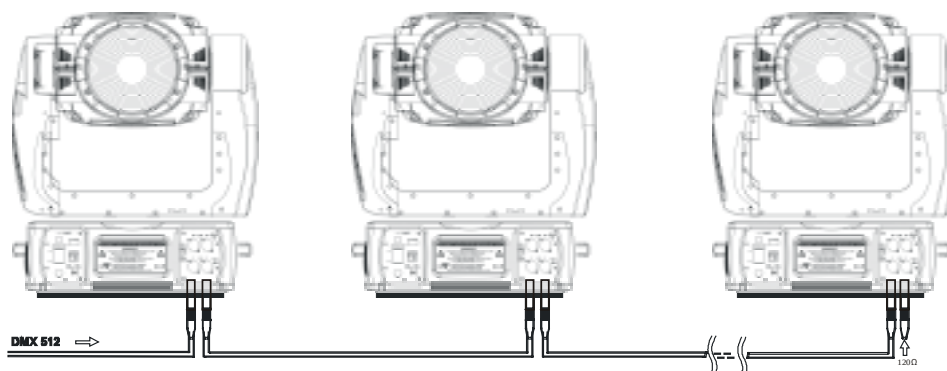
For overhead use, always install a safety-rope that can hold at least 10 times the weight of the fixture. You must only use safety ropes with screw-on carabines. Pull the safety rope through the two apertures on the bottom of the base and cover the trussing system etc. Insert the end in the carabine and tighten the fixation screw.



Possible omega holder 4 positions:



DMX-512 connection/connection between fixtures



The fixture is equipped with both 3-pin and 5-pin XLR sockets for DMX input and output. The sockets are wired in parallel.

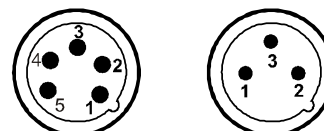
Occupation of the XLR-connection:

**DMX-OUTPUT
XLR mounting-socket:**



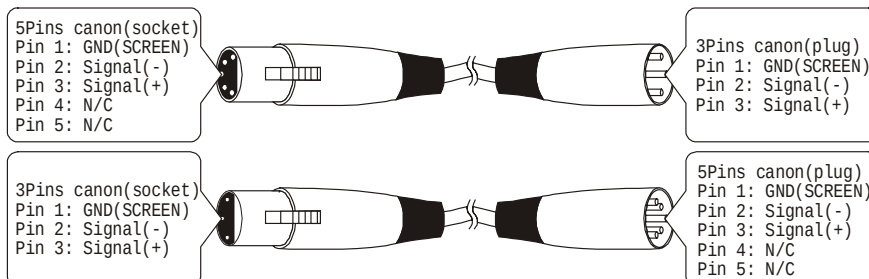
- 1- Ground
- 2- Signal (-)
- 3- Signal (+)
- 4- Free
- 5- Free

**DMX-input
XLR mounting-plug:**



Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120Ω resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

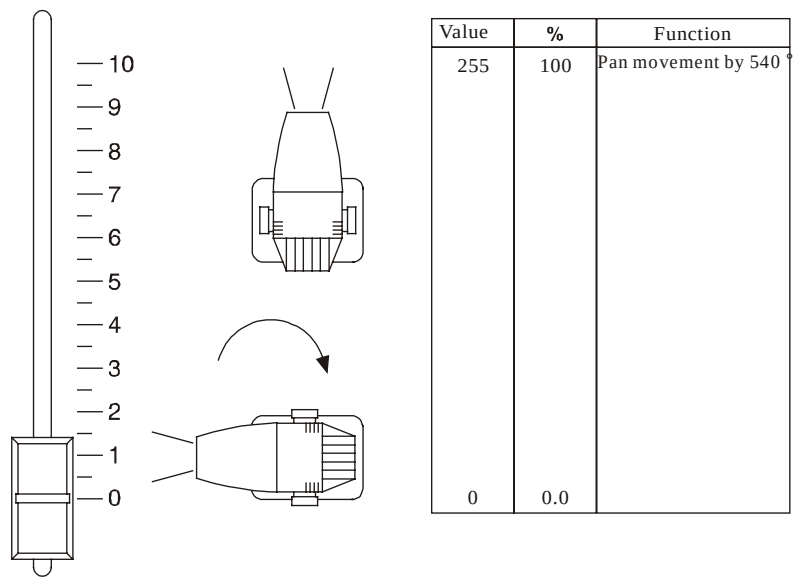
The transform of the controller line of 3 pins and 5 pins (plug and socket)



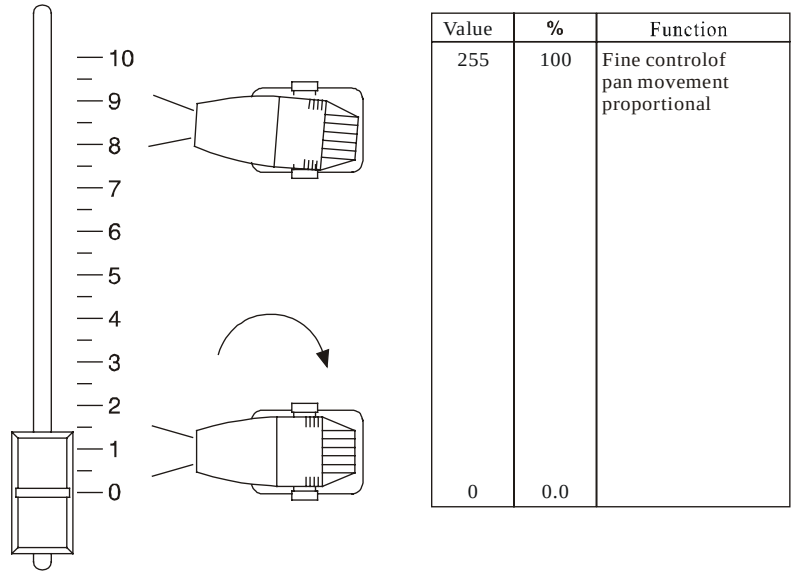
DMX512 CHANNEL FUNCTION

Channel	Function
1	Pan
2	Pan Fine (16BIT)
3	Tilt
4	Tilt Fine (16BIT)
5	Pan & Tilt Speed
6	Lamp on/off, Reset
7	Colour Wheel 1
8	Colour Wheel 2
9	Cyan
10	Magenta
11	Yellow
12	3200K Conversion Temperature Effect-- CTO
13	CYM +CTO Color Mix effect
14	CYM +CTO Speed adjust
15	Fresnel Opening
16	Zoom
17	Strobe
18	Dimmer Intensity

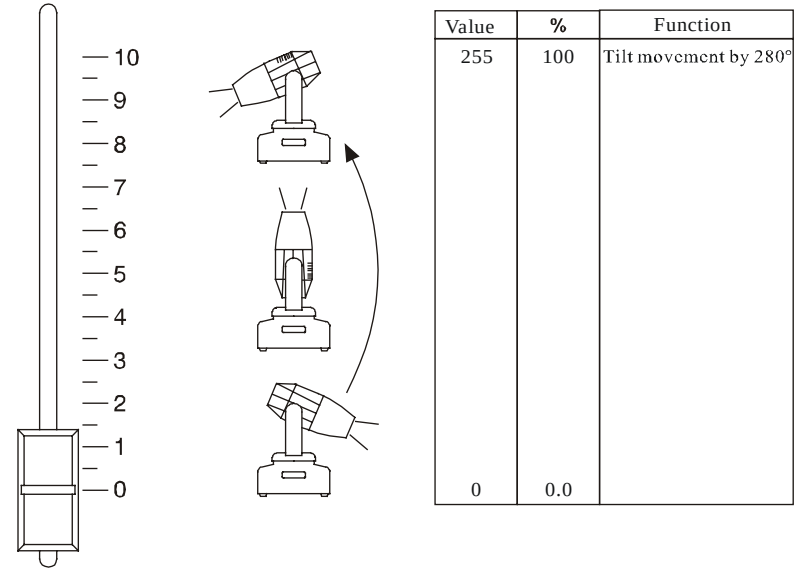
Channel 1 : Pan movement



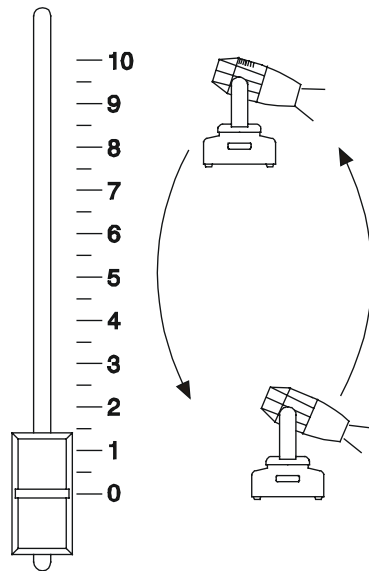
Channel 2 : Pan fine



Channel 3: Tilt

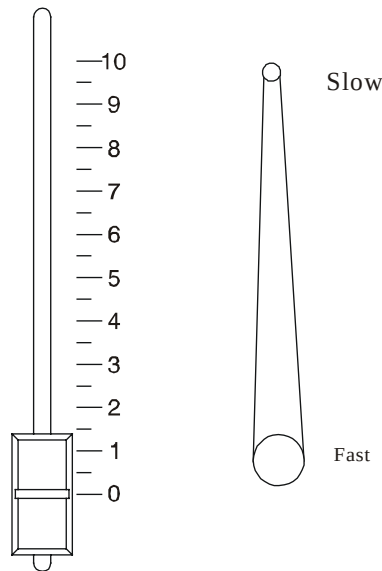


Channel 4 : Tilt Fine



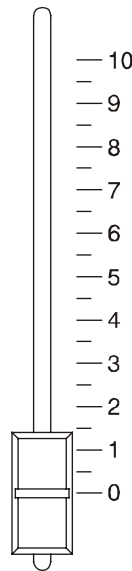
Value	%	Function
255	100	Fine control of Tilt movement proportional
0	0.0	

Channel 5 : Pan & Tilt speed



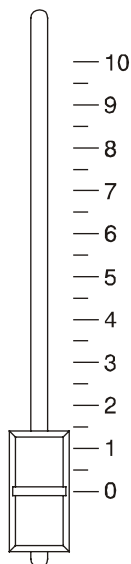
Value	%	Function
255	100	From fast to slow
0	0.0	Fast

Channel 6 : Lamp on/off, Reset



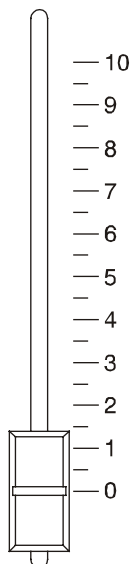
Value	%	Function
240~255	94~100	No effect
230~239	90~94	Lamp off after 3 seconds
140~229	55~90	No effect
128~139	50~55	Lamp on and Reset
0~127	0~50	No effect

Channel 7 : Color wheel 1



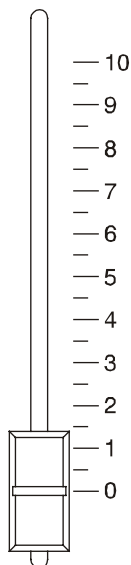
Value	%	Function
197~255	77~100	Forward rainbow effect from slow to fast
182	71	UV filter
169	66	6000K Temperature filter
156	61	Deep Green
143	56	Deep Orange
130	51	Deep Blue
117	46	Deep Red
104	41	White
83~97	32~28	UV filter
69~82	27~32	6000K Temperature filter
56~68	22~27	Deep Green
42~55	16~22	Orange
28~41	11~16	Deep Blue
14~27	5~11	Deep Red
0~13	0~5	White

Channel 8 : Color wheel 2



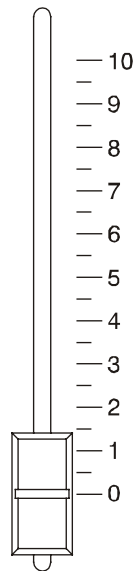
Value	%	Function
197~255	77~100	Forward rainbow effect from slow to fast
182	71	Red ring
169	66	Blue dot
156	61	Yellow ring
143	56	UT Filter/ Orange
130	51	Green / Orange
117	46	Blue/Yellow/Magenta/ Orange
104	41	White
83~97	32~28	Red ring
69~82	27~32	Blue dot
56~68	22~27	Yellow ring
42~55	16~22	UT Filter / Orange
28~41	11~16	Green / Orange
14~27	5~11	Blue/Yellow/Magenta/ Orange
0~13	0~5	White

Channel 9 : Cyan



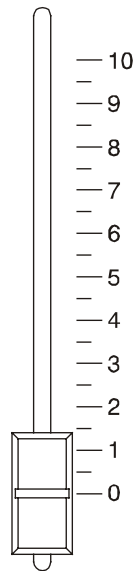
Value	%	Function
255	100	0~100% Cyan proportional
0	0.0	

Channel 10 : Magenta



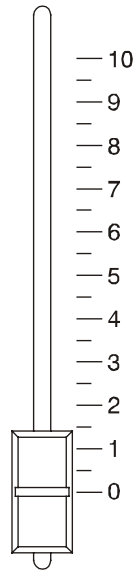
Value	%	Function
255	100	0~100% Magenta proportional
0	0.0	

Channel 11 : yellow



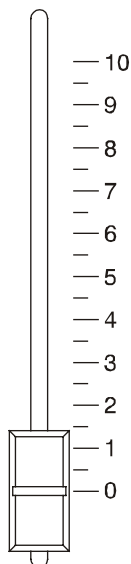
Value	%	Function
255	100	0~100% Yellow Proportional
0	0.0	

Channel 12 : 3200K CTO



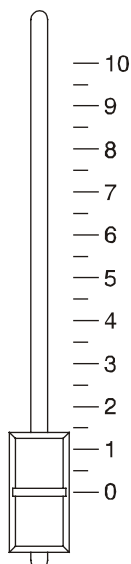
Value	%	Function
255	100	0~100% 6000K~3200K Proportional
0	0.0	

Channel 13 : CMY+CTO Marcos



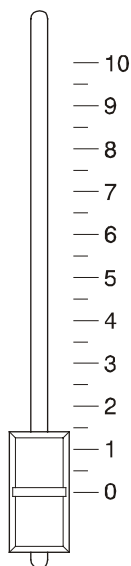
Value	%	Function
248~255	97~100	Marco 31
240~247	94~97	Marco 30
232~239	91~93.5	Marco 29
224~231	88~90.5	Marco 28
216~223	84.5~87.5	Marco 27
208~215	81.5~84	Marco 26
200~207	78.5~81	Marco 25
192~199	75~78	Marco 24
184~191	72~75	Marco 23
176~183	69~71.5	Marco 22
168~175	66~68.5	Marco 21
160~167	62.5~65.5	Marco 20
152~159	59.5~62	Marco 19
144~151	56.5~59	Marco 18
136~143	53.5~56	Marco 17
128~135	50~53	Marco 16
120~127	47~50	Marco 15
112~119	44~46.5	Marco 14
104~111	40.5~43.5	Marco 13
96~103	37.5~40	Marco 12
88~95	34.5~37	Marco 11
80~87	31~34	Marco 10
72~79	28~31	Marco 9
64~71	25~28	Marco 8
56~63	22~25	Marco 7
48~55	19~21.5	Marco 6
40~47	15.5~18.5	Marco 5
32~39	12.5~15	Marco 4
24~31	10.5~12	Marco 3
16~23	6.5~10	Marco 2
8~15	3.5~6	Marco 1
0~7	0~3	No function

Channel 14 : CMY filter + CTO speed assigning



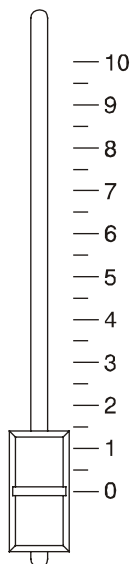
Value	%	Function
255	100	From fast to slow step
0	0.0	

Channel 15: Fresnel Opening



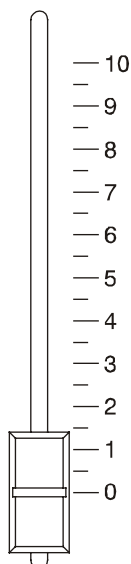
Value	%	Function
255	100	Internal Fresnel Opening--From close to open-light max mode
0	0.0	

Channel 16 : Zoom



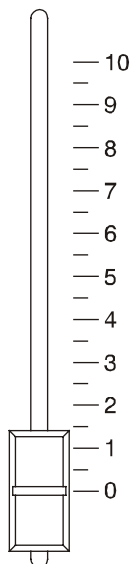
Value	%	Function
255	100	Max--proportional
0	0.0	Min.

Channel 17 : Strobe



Value	%	Function
224~255	88~100	Shutter Open speedy
192~223	75.5~87.5	Random strobe from slow to fast
160~191	63~75	Shutter open (dimmer proportional)
128~159	50~62.5	Strobe from slow to fast(open slowly and close quickly)
96~127	37.5~49.5	Shutter open (dimmer proportional)
64~95	25~37	Random strobe from slow to fast
32~63	12.5~24.5	Shutter open (dimmer proportional)
0~31	0~12	Shutter close

Channel 18 : Dimmer

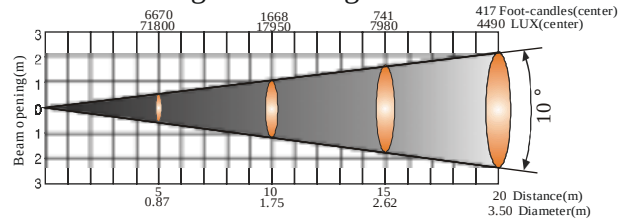


Value	%	Function
255	100	Dimmer intensity from 0 to 100% proportional
0	0.0	

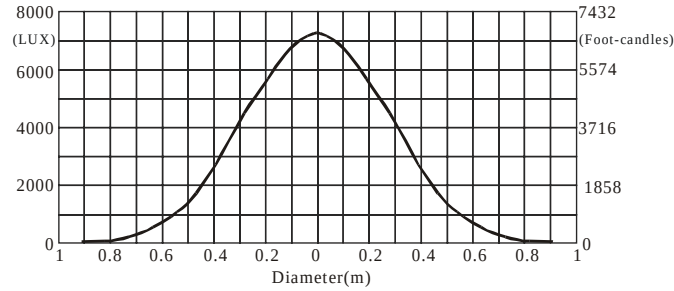
Fresnel lens

Lamp:MSR 1200 SA

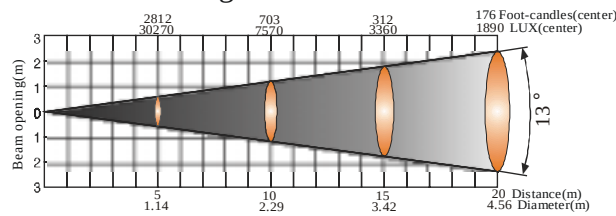
Beam angle 10 ° -LightMax mode



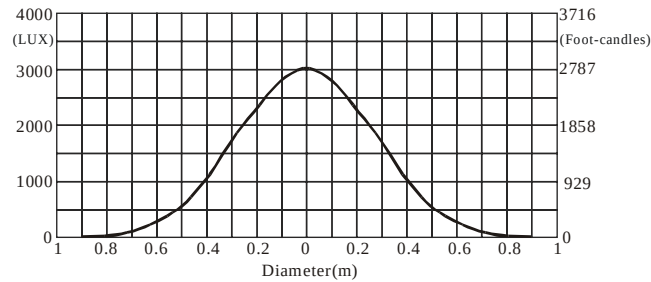
Distance=5m



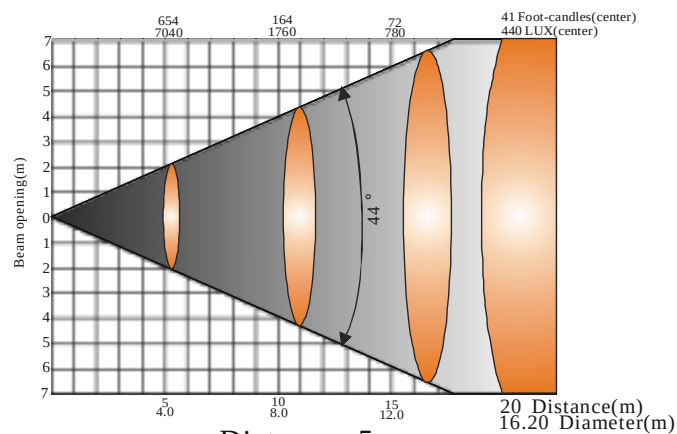
Beam angle 13 ° -Min zoom



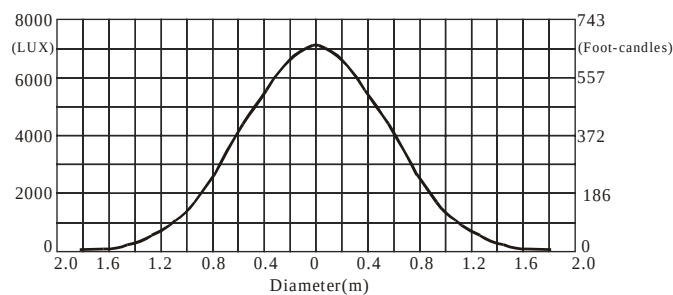
Distance=5m



Beam angle 42 ° with frost



Distance=5m



8. Technical specifications

US-model: Voltage.....AC100/110/120V , 50/60Hz

Fuse..... T 30 A@120V

EU-model: Voltage.....AC220/230/240V , 50/60Hz

Fuse T15A @230V

Rated Power : 1450W

DMX512 Channel : 18CHS

Luminous : 96000 LM

Lamp:

- MSR1200 SA GY 22
- Colour temperature 6000K
- Average lifespan:750hrs

Optical System:

- Focus: electronic linear focus
- Zoom: electronic zoom 10 ° ~44 °
- Dimmer: smooth dimmer 0~100%
- Strobe: Variable speed 1~10 flashes/sec (plus random strobe effect)
- Frost filter: smooth adjust 0~100%
- Iris: Electronic linear iris

Colour wheel:

- 6 dichroic-filters, UV, CTF 6000K plus white step/linear rotation(plus bi-directional rainbow -flow effect), Speed adjustable

CMY+CTC:

- CMY colour mixing system
- 0-100% 3200K-6000K colour temperature correction
- Linear CMY and CTS

Rigging:

- Stands directly on the floor
- Mounts horizontally or vertically with 2 clamps
- 2 truss orientation
- Safety chain/cord attachment bolt

Pan / Tilt Movement:

- Pan 530 ° , Tilt 280 °
- Micro-step scan effect, 8/16 Bit
- Auto-repositioning by photoelectric repositioning system
- Linearity move speed adjust.

Dimensions and weight:

- Length of base (including handles): 506 mm
- Width of yoke: 525 mm
- Height (head horizontal): 602 mm
- Weight (net): 58 kg

Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not buildup on or within the fixture. Otherwise, the fixtures light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER : Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The gobos may be cleaned with a soft brush. The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet.

The dichroic colour-filters, the gobo-wheel and the internal lenses should be cleaned monthly.

To ensure a proper function of the gobo-wheel, we recommend lubrication in six month intervals. The quantity of oil must not be excessive in order to avoid that oil runs out when the gobo-wheel rotates.

There are no serviceable parts inside the device except for the lamp and the fuse. Please refer to the instructions under "Fitting/Exchanging the lamp". Maintenance and service operations are only to be carried out by authorized dealers.

Replacing the fuse

If the lamp burns out, the fine-wire fuse of the device might fuse, too. Only replace the fuse by a fuse of same type and rating. Before replacing the fuse, unplug mains lead.

Procedure:

- 1) Unscrew the fuseholder on the rear panel of the base with a fitting screwdriver from the housing (anti- clockwise).
- 2) Remove the old fuse from the fuseholder.
- 3) Install the new fuse in the fuseholder.
- 4) Replace the fuseholder in the housing and fix it.